1/24/2019

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In [ ]:
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  3
                      Assignment: AssignmentFor BigData - in Python
     # Given a list of strings - List[String] ("alpha", "gamma", "omega", "zeta", "beta")
  7
     # - find count of all strings with length 4
    #- convert the list of string to a list of integers, where each string is mapped to its corresponding length
 11 # - find count of all strings which contain alphabet 'm'
    # - find the count of all strings which start with the alphabet 'a#
 12
 13
 14 list1 = ["alpha", "gamma", "omega", "zeta", "beta"]
 15 | cntlen = 0
 16 | cntstr m = 0
 17 cntstrbeg a = 0
 18 | list2 = []
 19
     for 1st in list1:
 20
         strlen = len(lst)
 21
         list2.append(strlen)
 22
 23
         if (strlen == 4):
 24
             cntlen +=1
         if (lst.find('m') != -1):
 25
 26
             cntstr m += 1
 27
         if (lst.find('a') == 0):
 28
             cntstrbeg a +=1
 29
 30
     print('-'*80,"\n1. The Count of Strings from the given List whose Length is 4 is : %d \n" % cntlen,'-'*80)
 31
 32
 33
     print('-'*80,"\n2. The List of Strings replaced with Lengths is : %s \n" % list2,'-'*80)
 34
     print('-'*80,"\n3. The Count of Strings with character m is: %d \n" % cntstr m,'-'*80)
 35
 36
     print('-'*80,"\n4. The Count of Strings starting with character a is: %d \n" % cntstrbeg a,'-'*80)
 37
 38
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In []: ▶ 1 #Task3 # Create an application to find GCD of two numbers. 3 # taking two numbers from User and Giving the GCD of the number import math # Approach1- by using GCD function in Math Library print(" Please enter two numbers :\n",'-'*80) 10 num1 = int(input("Enter Number 1 - ")) 11 num2 = int(input("Enter Number 2 - ")) print("The GCD of these Numbers by using Math.GCD is : %d" % math.gcd(num1,num2)) 12 13 14 # Approach2 - by writing function to calculate the GCD of numbers def calculateGCD(num1, num2): 15 16 17 if num1 > num2: small = num218 19 else: 20 small = num1for i in range(1, small+1): 21 if((num1 % i == 0) and (num2 % i == 0)):22 23 gcd = i24 25 return gcd 26 27 28 print ("The GCD of numbers by writing a function is : %d "% calculateGCD(num1,num2)) 29